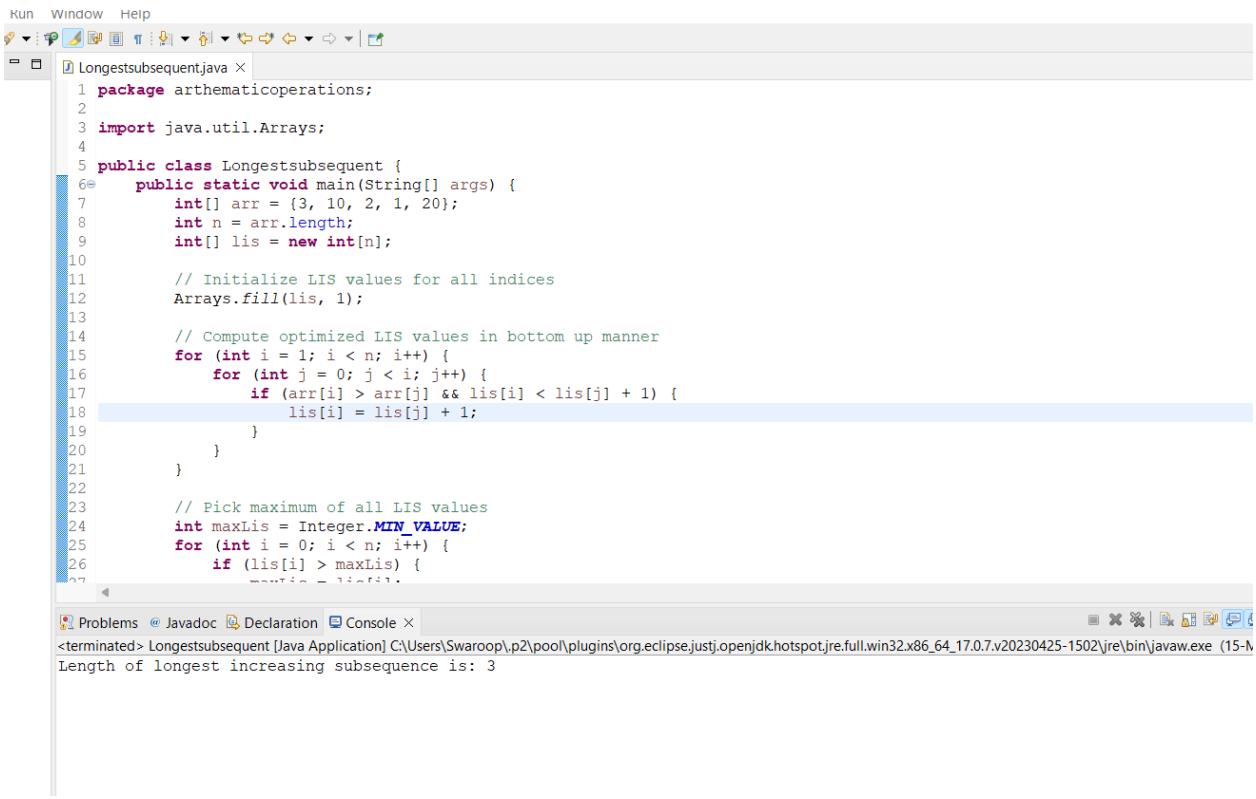
Practice Question -Longest Increasing Subsequence

```
package arthematicoperations;
import java.util.Arrays;
public class Longestsubsequent {
   public static void main(String[] args) {
       int[] arr = {3, 10, 2, 1, 20};
       int n = arr.length;
       int[] lis = new int[n];
       // Initialize LIS values for all indices
       Arrays.fill(lis, 1);
       // Compute optimized LIS values in bottom up manner
       for (int i = 1; i < n; i++) {
           for (int j = 0; j < i; j++) {
               if (arr[i] > arr[j] && lis[i] < lis[j] + 1) {
                   lis[i] = lis[j] + 1;
               }
           }
       }
       // Pick maximum of all LIS values
       int maxLis = Integer.MIN_VALUE;
       for (int i = 0; i < n; i++) {
           if (lis[i] > maxLis) {
               maxLis = lis[i];
           }
       }
       System.out.println("Length of longest increasing subsequence is: " +
maxLis);
   }
}
```



Git commands

Git add Practice Question-Longest Increasing Subsequence.pdf

Git commit -m "Changes made"

Git push -u origin master